

## CLAIMS

1. An article comprising  
a substrate; and  
an invisible symbol on the substrate,  
wherein the invisible symbol is formed by a compound which includes a  
cyano group and has an infrared absorption wavelength apart from that of the  
substrate when heated.
2. The article of claim 1, wherein the compound has a polymer containing a  
cyano group.
3. The article of claim 1, wherein the substrate is made of paper, polymer or  
cloth.
4. The article of claim 1, wherein the compound emits infrared light when  
heated to 50 degree in Centigrade or more.
5. The article of claim 1, wherein the invisible symbol is a barcode having  
minimum bar width about 250 micro-meter.
6. The article of claim 1, wherein the wavelength of infrared emission is  
around 4.5 micro-meter.

7. The article of claim 1, wherein the invisible symbol is printed on the substrate using a laser beam printer.